

DIGITAL CONTROL OF SWITCHING VOLTAGE REGULATORS

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ABSTRACT

[0041] A digital control system and method for use in switching type voltage regulators measures the rate of the change and the magnitude of the output voltage to change not only the pulse width but also the frequency of the pulses. A voltage regulator according to the present invention creates a more stable output voltage and responds more quickly to sudden changes in current load than prior analog and digitally controlled systems.